

# Geoffrey Wadge

## List of Publications by Year in descending order

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49  
papers

2,058  
citations

218677  
26  
h-index

233421  
45  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1570  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping water vapour variability over a mountainous tropical island using InSAR and an atmospheric model for geodetic observations. <i>Remote Sensing of Environment</i> , 2020, 237, 111560.	11.0	5
2	Lava flow morphology at an erupting andesitic stratovolcano: A satellite perspective on El Reventador, Ecuador. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 372, 34-47.	2.1	14
3	Multi-year Satellite Observations of Sulfur Dioxide Gas Emissions and Lava Extrusion at Bagana Volcano, Papua New Guinea. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	8
4	Using satellite radar amplitude imaging for monitoring syn-eruptive changes in surface morphology at an ice-capped stratovolcano. <i>Remote Sensing of Environment</i> , 2018, 209, 480-488.	11.0	26
5	Persistent growth of a young andesite lava cone: Bagana volcano, Papua New Guinea. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 356, 304-315.	2.1	11
6	Decaying Lava Extrusion Rate at El Reventador Volcano, Ecuador, Measured Using High-Resolution Satellite Radar. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9966-9988.	3.4	41
7	Historical Volcanism and the State of Stress in the East African Rift System. <i>Frontiers in Earth Science</i> , 2016, 4, .	1.8	37
8	Dome growth, collapse, and valley fill at Soufrière Hills Volcano, Montserrat, from 1995 to 2013: Contributions from satellite radar measurements of topographic change. , 2016, 12, 1300-1315.		21
9	Similarities and differences in the historical records of lava dome-building volcanoes: Implications for understanding magmatic processes and eruption forecasting. <i>Earth-Science Reviews</i> , 2016, 160, 240-263.	9.1	42
10	The Variability of Refractivity in the Atmospheric Boundary Layer of a Tropical Island Volcano Measured by Ground-Based Interferometric Radar. <i>Boundary-Layer Meteorology</i> , 2016, 161, 309-333.	2.3	7
11	Chapter 2 Cyclic phenomena at the Soufrière Hills Volcano, Montserrat. <i>Geological Society Memoir</i> , 2014, 39, 41-60.	1.7	34
12	Chapter 1 An overview of the eruption of Soufrière Hills Volcano, Montserrat from 2000 to 2010. <i>Geological Society Memoir</i> , 2014, 39, 1-40.	1.7	114
13	Chapter 13 AVTIS observations of lava dome growth at Soufrière Hills Volcano, Montserrat: 2004 to 2011. <i>Geological Society Memoir</i> , 2014, 39, 229-240.	1.7	6
14	Coupled subdaily and multiweek cycles during the lava dome eruption of Soufrière Hills Volcano, Montserrat. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1895-1903.	3.4	17
15	Measuring large topographic change with InSAR: Lava thicknesses, extrusion rate and subsidence rate at Santiaguito volcano, Guatemala. <i>Earth and Planetary Science Letters</i> , 2012, 335-336, 216-225.	4.4	82
16	Pulsatory andesite lava flow at Bagana Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	21
17	Rapid topographic change measured by high-resolution satellite radar at Soufriere Hills Volcano, Montserrat, 2008-2010. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 199, 142-152.	2.1	68
18	Stress field control of eruption dynamics at a rift volcano: Nyamuragira, D.R.Congo. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 207, 1-15.	2.1	45

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19	Lava production at Soufrière Hills Volcano, Montserrat: 1995–2009. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	69
20	Growth of the lava dome and extrusion rates at Soufrière Hills Volcano, Montserrat, West Indies: 2005–2008. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	52
21	Insights into processes and deposits of hazardous vulcanian explosions at Soufrière Hills Volcano during 2008 and 2009 (Montserrat, West Indies). <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	40
22	Lava dome growth and mass wasting measured by a time series of ground-based radar and seismicity observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	43
23	Use of a portable topographic mapping millimetre wave radar at an active lava flow. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	21
24	Imaging a growing lava dome with a portable radar. <i>Eos</i> , 2006, 87, 226.	0.1	4
25	Ground deformation at Soufrière Hills Volcano, Montserrat during 1998–2000 measured by radar interferometry and GPS. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 152, 157-173.	2.1	46
26	The magma budget of Volcán Arenal, Costa Rica from 1980 to 2004. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 157, 60-74.	2.1	41
27	Towards Operational Repeat-Pass SAR Interferometry at Active Volcanoes. <i>Natural Hazards</i> , 2004, 33, 47-76.	3.4	27
28	Numerical modelling of the growth dynamics of a simple silicic lava dome. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	28
29	Evaporation of groundwater from arid playas measured by c-band sar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 1641-1650.	6.3	18
30	A strategy for the observation of volcanism on Earth from space. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 145-156.	3.4	16
31	Spaceborne radar measurements of the eruption of Soufrière Hills Volcano, Montserrat. <i>Geological Society Memoir</i> , 2002, 21, 583-594.	1.7	23
32	Atmospheric models, GPS and InSAR measurements of the tropospheric water vapour field over Mount Etna. <i>Geophysical Research Letters</i> , 2002, 29, 11-1-11-4.	4.0	101
33	Modeling the backscatter response due to salt crust development. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 2307-2310.	6.3	16
34	An objective method for mapping hazardous flow deposits from the stratigraphic record of stratovolcanoes: a case example from Montagne Pelée. <i>Bulletin of Volcanology</i> , 2001, 63, 98-111.	3.0	8
35	Post-emplacement lava subsidence and the accuracy of ERS InSAR digital elevation models of volcanoes. <i>International Journal of Remote Sensing</i> , 2001, 22, 819-828.	2.9	23
36	Inferring the lithology of borehole rocks by applying neural network classifiers to downhole logs: an example from the Ocean Drilling Program. <i>Geophysical Journal International</i> , 1999, 136, 477-491.	2.4	85

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37	Magma production and growth of the lava dome of the Soufriere Hills Volcano, Montserrat, West Indies: November 1995 to December 1997. <i>Geophysical Research Letters</i> , 1998, 25, 3421-3424.	4.0	157
38	The application of imaging spectrometry data to mapping alteration zones associated with gold mineralization in southern Spain. <i>International Journal of Remote Sensing</i> , 1996, 17, 331-350.	2.9	39
39	The effects of vegetation on the ability to map soils using imaging spectrometer data. <i>International Journal of Remote Sensing</i> , 1994, 15, 63-86.	2.9	32
40	Monitoring playa sedimentation using sequential radar images. <i>Terra Nova</i> , 1994, 6, 391-396.	2.1	12
41	Simple stochastic modelling of the eruption history of a basaltic volcano: Nyamuragira, Zaire. <i>Bulletin of Volcanology</i> , 1994, 56, 87-97.	3.0	66
42	Simple stochastic modelling of the eruption history of a basaltic volcano: Nyamuragira, Zaire. <i>Bulletin of Volcanology</i> , 1994, 56, 87-97.	3.0	1
43	Identification and analysis of the alignments of point-like features in remotely-sensed imagery: Volcanic cones in the Pinacate Volcanic Field, Mexico. <i>International Journal of Remote Sensing</i> , 1989, 10, 455-474.	2.9	18
44	The potential of GIS modelling of gravity flows and slope instabilities. <i>International Journal of Geographical Information Science</i> , 1988, 2, 143-152.	4.8	30
45	Geological remote sensing of rocky coasts. <i>Geological Magazine</i> , 1988, 125, 495-505.	1.5	3
46	The magma budget of Volcan Arenal, Costa Rica from 1968 to 1980. <i>Journal of Volcanology and Geothermal Research</i> , 1983, 19, 281-302.	2.1	48
47	Steady state volcanism: Evidence from eruption histories of polygenetic volcanoes. <i>Journal of Geophysical Research</i> , 1982, 87, 4035-4049.	3.3	134
48	The variation of magma discharge during basaltic eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 1981, 11, 139-168.	2.1	255
49	Geological Lineament Detection Using The Hough Transform. , 0, , .		3